Installation and Operation Instructions for Vent-Free Gas Log Sets*

VERMONT Castings

Models UVL18RN, UVL18MN, UVL24RN, UVL24MN, UVL30RN, UVL30MN (Natural Gas)

Models UVL18RP, UVL18MP, UVL24RP, UVL24MP, UVL30RP, UVL30MP (Propane)

WARNING

If the information in this manual is not followed exactly, a fire or explosion may result, causing property damage, injury, or loss of life.

— **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**

— **WHAT TO DO IF YOU SMELL GAS**

- **Do not try to light any appliance.**
- **Do not touch any electrical switch; do not use any phone in your building.**
- **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
- **If you cannot reach your gas supplier, call the fire department.**

INSTALLER PLEASE NOTE:

DO NOT begin installation of this gas logset until all instructions have been read and understood.

ATTENTION

Installation and service must be performed by a qualified agency, individual, firm, corporation, or company, experienced in the installation, repair, and servicing of this type of gas appliance. Do not modify, alter or tamper with any part of this heater, control, or logs.

This appliance may be installed in an aftermarket, permanently located, manufactured (mobile) home, where not prohibited by local codes.

This appliance is only for use with the type of gas indicated on the rating plate. This appliance is not convertible for use with other gases.

WARNING

CARBON MONOXIDE POISONING MAY LEAD TO DEATH.

When used without fresh air, vent-free log sets may give off carbon monoxide, an odorless, poisonous gas.

Some people - pregnant women, people with heart or lung disease, anemia, or persons under the influence of alcohol, and persons at high altitudes are more affected by carbon monoxide than others.

Early signs of carbon monoxide poisoning resemble the flu - headache, dizziness, and/or nausea. If you have these signs, the heater may not be installed or working properly. **GET FRESH AIR AT ONCE!** Have the heater serviced before using it again.

***These logsets are not for exterior use.**

DESIGN CERTIFIED

Tested and listed to ANSI Z21.11.2a-2003, Unvented Heaters, and Z21.60a-2003; CSA 2.26a-2003 Decorative Gas Appliances for Installation in Solid-Fuel Burning Fireplaces.

CERTIFIED

SAVE THIS MANUAL FOR FUTURE REFERENCE.

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General Information

In order to assure a safe and effective installation, only a qualified service person who is familiar with the building codes and installation techniques appropriate to your area may install and service this appliance.

The Logsets have been designed and tested to operate safely when installed according to the installation instructions contained in this manual. Read all instructions before starting the installation.

- The vent-free gas logset must be installed **only** in a fireplace constructed of noncombustible material.
- **These logsets are not for exterior use.**
- This appliance is for supplemental heating only. It should not be used as the primary heat source for a dwelling.
- The logset should be inspected before use and at least annually thereafter. More frequent cleaning may be necessary due to excessive lint from carpeting or bedding material.
- In the United States, the installation and operation must conform to local codes or, in the absence of local codes, with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, latest edition, CSA-B149.1 Installation Code, and with the National Electrical Code, ANSI/NFPA70 (latest edition). State or local codes may only allow operation of this appliance in a vented configuratio. Check your state or local codes. In Canada, check local province for proper use or CSA-B149. Refer to pages 7 and 8 for installation details.
- The gas logset and its individual shutoff valve must be disconnected from the gas supply piping system during any pressure testing of that system at test pressures in excess of 1/2 p.s.i.g. (3.5 kPa.) The gas logset must be isolated from the gas supply piping system by closing its individual manual shutoff valve during any pressure testing of the gas supply piping system at test pressures equal to or less than 1/2 p.s.i.g. (3.5 kPa.)
- Do not, under any circumstances, burn solid fuel (wood, paper, coal) in the fireplace where you have installed your logset. Do not use it for cooking. Put nothing on top of the logs.
- The logset **must** be compatible with its fuel. Natural gas requires different hardware than propane. Never attempt to use natural gas with a propane logset or vice versa.
- For a propane burning logset, the supply tank must include a high to low gas pressure regulator. The tank **must** be outdoors. Do not, under any circumstances, locate supply tanks inside any structure.
- The fireplace **must** include a screen made of chain mesh or a similar material. You must keep the screen closed at all times during the operation of the logset; it will protect you in the event of an explosion.
- **WARNING:** If the fireplace contains glass doors, they **must** remain open at all times during the operation of the logset, allowing combustion air to circulate.
- In order to avoid any possible gas leaks, apply pipe joint compound to all non-flared, threaded connections involved in this installation. For propane, the joint compound must be resistant to the corrosive action of propane.
- To check for leaks, always use a soapy water solution or a sniffer. **Never** test by using an open flame.
- The area around the gas logset **must** be free of all combustible materials, especially gasoline or other highly flammable, vapor producing liquids.
- Due to high temperatures, locate this logset away from both high traffic areas and furniture and draperies.
- Children and adults alike should be aware of the high surface temperatures; to avoid the risk of burns or ignition of clothing they should stay away.
- Do not touch any part of the logset other than the controls while it is operating or immediately after you turn it off.
- Supervise young children and pets carefully when they are in the room where the logset is operating.
- Do not place clothing or other flammable material on or near the logset.
- Make sure that any safety screen or guard, removed during servicing, has been replaced before you use the logset.
- Do not, under any circumstances, install the logset in any bedroom, bathroom, other small, enclosed room, mobile home or recreational vehicle.
- Do not install the logset in a drafty area or use it with any after-market blower system that may cause drafting and consequently alter the flame pattern.
- It is imperative that you keep clear all burner areas, control compartments and passageways for circulating air.
- Do not move the logset in any way that might dislodge the logs from their fixed positions. If you bump the logset check to see if you have dislodged anything.
- Provide adequate clearances around air openings into the combustion chamber and adequate accessibility clearance for servicing and proper operation. NEVER obstruct the front opening of the fireplace.
- Avoid propane tank dropping below 25% full. This will help keep soot from occurring.

WARNING

This appliance is for installation in a solid-fuel burning masonry fireplace with a working flue, a U.L.-127 Listed manufactured solid-fuel burning fireplace, in any CFM Specialty Home Products ventless firebox or in any listed ventless firebox enclosure certified to I.A.S. U.S. requirements 2-97.

NOTICE

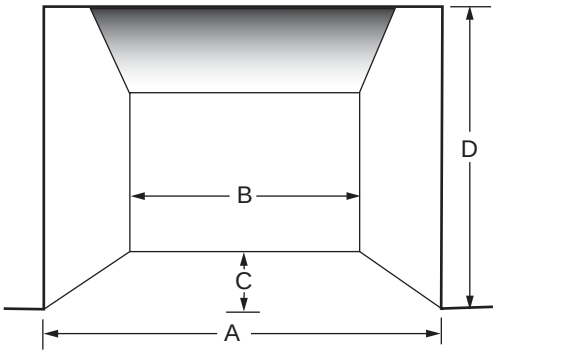
This is an unvented gas-fired heater. It uses air (oxygen) from the room in which it is installed. Provisions for adequate combustion and ventilation air must be provided. Refer to pages 5 and 6.

This appliance operates as an unvented domestic room heater when fitted to a masonry or factory-built wood-burning fireplace with the flue damper closed, or as a decorative appliance when the flue damper is fully open. It must not be used for any other purpose and must be fitted in a masonry or factory-built fireplace or ventless firebox enclosure.

Installation Requirements

The fireplace must meet the minimum dimensions listed below. (Fig. 1) Do not install the logset if the fireplace does not meet these minimums.

Logset	Gas	Min. Fireplace Dimensions				Inlet Supply Pressure (w.c.)		Manifold Pressure	Min. Input BTU/hr	Max. Input BTU/hr
		A Front Width	B Rear Width	C Overall Depth	D Overall Height	Min.	Max.			
18" UVL18RN	Natural	20½"	17"	13½"	18"	5.5"	14.0"	3.5"	17,000	24,000
18" UVL18MN									15,000	24,000
24" UVL24RN		20½"	18½"	13½"	18"	5.5"	14.0"	3.5"	24,500	35,000
24" UVL24MN									18,000	35,000
30" UVL30RN		25½"	23"	13½"	18"	5.5"	14.0"	3.5"	25,000	39,000
30" UVL30MN									28,500	39,000
18" UVL18RP	Propane	20½"	17"	13½"	18"	11.0"	14.0"	11.0"	18,000	24,000
18" UVL18MP								10.0"	17,000	24,000
24" UVL24RP		20½"	18½"	13½"	18"	11.0"	14.0"	11.0"	26,000	35,000
24" UVL24MP								10.0"	18,000	35,000
30" UVL30RP		25½"	23"	13½"	18"	11.0"	14.0"	11.0"	29,500	39,000
30" UVL30MP								10.0"	29,000	39,000



A. Front Width B. Rear Width
C. Depth D. Height

FD370-2

Fig. 1 Minimum fireplace dimensions.

Pressure Test Points

UVL-R Series: The gas control is equipped with a captured screw-type pressure test point, therefore it is not necessary to provide a 1/8" test point upstream of the control.

UVL-M Series: The gas valve control is equipped with a captured screw type inlet and manifold pressure test point on the right side of the valve.

Odor During Operation

Neither natural gas nor propane gas give off an odor when burned. The nature of a vent free combustion system, however, is such that odors may occasionally be produced during heater operation when impurities exist in the immediate area. Cleaning solutions, paint, solvents, cigarette smoke, candles, adhesives, new carpet or textiles, etc., all can create fumes. These fumes may mix with combustion air and can create odor. Such odors will disappear over time, however, the condition can be alleviated by opening a window or otherwise providing additional ventilation to the area.

High Elevations

Input ratings are shown in BTU per hour and are certified without deration from elevations up to 4,500 feet (1,370m) above sea level.

Nuisance outages may occur at altitudes above 4,500 feet (1,370m) if dirt, dust, lint and/or cobwebs are allowed to accumulate on burner and/or ODS pilot. Monthly inspection and cleaning is recommended for altitudes above 4,500 feet (1,370m)

For elevations above 4,500 feet (1,370m) in USA, installations must be in accordance with the current ANSI Z223.1/NFPA 54 and/or local codes having jurisdiction.

In Canada, please consult provincial and/or local authorities having jurisdiction for installations at elevations above 4,500 feet (1,370m)

Planning

Planning the installation is an important first step. It will save time and money later in the actual installation. In planning the installation, consider:

- Where the heater will be located.
- All components needed to complete the installation.
- DO NOT use this heater in sleeping quarters, mobile homes, or in recreational vehicles.
- Installation and repair should be done by a qualified service person.
- DO NOT use this heater if any part has been under water. Immediately call a qualified technician to inspect the appliance and replace any part of the control system and any gas control which has been under water.
- When used as an unvented heater, always ensure there is adequate ventilation from the room where the appliance is operating. This appliance is equipped with an ODS (oxygen depletion sensor) pilot light safety system designed to shut off the appliance if enough fresh air is not available.

THIS APPLIANCE MUST NOT BE USED WITH GLASS DOORS IN A CLOSED POSITION .

Keep the burner and control compartment clean. See installation and operating instructions supplied with the heater.

WARNING: During manufacturing, fabricating and shipping, various components of this appliance are treated with certain oils, films or bonding agents. These chemicals are not harmful, but may produce annoying smoke and smells as they are burned off during the initial operation of the appliance, possibly causing headaches or eye or lung irritation. This is a normal and temporary occurrence. The initial break-in operation should last 2-3 hours with the burner at its highest setting. Provide maximum ventilation by opening windows, doors and the chimney flue to allow odors to dissipate. Any odors remaining after this initial break-in will be slight and will disappear with continued use.

This appliance operates as an unvented domestic room heater when fitted to a masonry or factory-built wood-burning fireplace with the flue damper closed, or as a decorative appliance when the flue damper is fully open. It must not be used for any other purpose and must be fitted in a masonry or factory-built fireplace or ventless firebox enclosure.

State, provincial or local codes may only allow operation of this appliance in a vented configuration. Check your state or local codes. If unvented room heaters are not permitted, the fireplace vent damper must be locked at the minimum vent area required by local codes or by the National Fuel Gas Code (ANSI Z223.1/NFPA 54, latest edition).

When installed as a Decorative Gas Appliance for installation in a solid-fuel burning fireplace, a minimum permanent free opening of 29 square inches must be maintained with a fixed damper stop provided with the appliance. Minimum flue size for this appliance is 29 square inches.

Proposition 65 Warning: Fuels used in gas, woodburning or oil fired appliances, and the products of combustion of such fuels, contain chemicals known to the State of California to cause cancer, birth defects and other reproductive harm.
California Health & Safety Code Sec. 25249.6

Installation Precautions

1. This vent-free gas appliance and its components have been tested and will operate safely when installed in accordance with this Installation Manual. Read all instructions **before** starting the installation, and follow these instructions carefully **during** installation to maximize the appliance's benefit and safety. Failure to follow them will void your warranty and may present a fire hazard.

2. After opening the carton, refer to *Replacement Parts* on Page 17 and 18, and remove the various parts.

Report to your dealer if any parts were damaged in shipment.

- **CFM Specialty Home Products warranty will be voided by, and CFM Specialty Home Products disclaims any responsibility for, the following actions:**
- **Installation of any damaged appliance.**
- **Modification of the appliance.**
- **Installation other than as instructed by CFM Specialty Home Products.**
- **Improper positioning of the gas logs.**
- **Installation and/or use of any component part or accessory not manufactured or approved by CFM Specialty Home Products, not withstanding any independent testing laboratory or other third-party approval of such component part or accessory.**

Any such action may create a possible fire hazard.
Consult your local building codes.
This heater shall not be installed in a confined space unless provisions are made for adequate combustion and ventilation air.

WARNING!

Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refe to this manual for assistance or additional information, consult a qualified installer, service agency or the gas supplier.

Installation Requirements

Fresh Air Requirements for Combustion and Ventilation

WARNING

This heater must have fresh air for proper operation. If it does not, poor fuel combustion could result. Read the following instructions to ensure proper fresh air supply for this and other fuel-burning appliances in your home.

Modern construction standards have resulted in homes that are highly energy-efficient and that allow little heat loss. Your home needs to breathe, however, and all fuel-burning appliances need fresh air to function properly and safely. Exhaust fans, clothes dryers, fireplaces, and other fuel burning appliances all use the air inside the building. If the available fresh air supply is insufficient to meet the demands of these appliances, problems can result.

The vent-free logsets have specific fresh air requirements. You must determine that these requirements will be met within the space where the appliance will be installed. The following information will help you ensure that adequate fresh air is available for the heater to function properly.

Provide for Adequate Ventilation

Any space within a home can be classified in these categories:

1) Unusually tight construction
2) Confined space
3) Unconfined space.

First, determine which classification defines the intended installation space.

Unusually Tight Construction

You must provide additional fresh air if the space falls into this classification. *Unusually Tight Construction* is defined as construction wherein:

a. Walls and ceilings exposed to the outside atmosphere have a continuous water vapor barrier with a rating of one perm or less, with openings gasketed or sealed, *and*

b. weather stripping has been added on openable windows and doors *and*

c. caulking or sealants are applied to areas such as joints around windows and door frames, between sole plates and floors, between wall and ceiling joints, between wall panels, at penetrations for plumbing, electrical, and gas lines, and at all other openings.

If your home meets all of the above criteria, you must provide additional fresh air for the appliance as detailed on Page 6.

If your home does not meet the above criteria, follow the procedure below.

Determine If You Have a Confined or Unconfined Space

Use the following formula to determine if you have a confined or unconfined space.
Space is defined as the room in which you will install the heater, plus any adjoining rooms with doorless passageways or ventilation grilles between the rooms. The National Fuel Gas Code defines a confined space as a space whose volume is less than 50 cubic feet per 1,000 BTU per hour input rating (4.8m^3 per Kw) of the aggregate (total) input rating of all appliances installed in that space and an unconfined space as a space whose volume is not less than 50 cubic feet per 1,000 BTU per hour (4.8m^3 per Kw) of the aggregate input rating of all appliances installed in that space. Rooms communicating directly with the space in which the appliances are installed, through openings not furnished with doors, are considered a part of the unconfined space.

1. Determine the volume of space (length x width x height). Include adjoining rooms connected by doorless passageways or ventilating grilles.

Example: A room that is 18’ x 12’ x 8’ has a volume of 1728 cubic feet. An adjoining open kitchen that is 10’ x 12’ x 8’ has a volume of 960 cubic feet. An adjoining open dining room is 12’ x 12’ x 8’ with a volume of 1152 cubic feet. The total volume is 3840 cubic feet.

2. Divide the volume of space by 50 cubic feet. The result is the maximum BTU/hour the space can support.

Example: 3840 cubic feet divided by 50 = 76.8 or 76,800 BTU/hour.

3. Add the BTU/hour ratings of all fuel-burning appliances installed in the same space, including the following:

Gas Water Heater	Gas Furnace
Gas Fireplace Logs	Vent-free Gas Heater
Vented Gas Heater*	Other Gas Appliances*

** Do not include Direct-vent appliances as these use outdoor air for combustion and vent to the outdoors.*

Example:

Gas Range	55,000 BTU/hour
Vent-Free LogSet	+25,000 BTU/hour
Total	80,000 BTU/hour

4. Compare the maximum BTU/hour rating the space can support with the total BTU/hour used by the appliances.

Example: 76,800 BTU/hour the space can support
80,000 BTU/hour used by appliances

In this example, the maximum BTU/hour that the space can support is less than the total used by the appliances.
The space is considered to be ***Confined Space.*** Additional air must be provided to meet the requirements on the vent-free gas log set.

The installation and the provisions for combustion and ventilation air must conform with the National Fuel Gas Code, ANSI Z223.1/NFPA 54, or the CSA-B149.1 Installation Code (Series).

A confined space may be ventilated in two ways:

A. Open up or provide at least two ventilating grilles to an adjoining unconfined space. (Fig. 2)

Each of the two grilles must provide an opening of at least 50 square inches, with all opening dimensions being at least 3". One grille must be within 12" of the ceiling; the other within 12" of the floor. (If the total exceeds 100,000 BTU/hour, additional grilles will be needed.)

B. Vent the room directly to the outdoors. (Provide one square inch of opening for each 4,000 BTU/hr.)

For further information on ventilation guidelines and sizing specifications, follow the National Fuel Gas Code/NFPA 54/ANSI Z223.1/NFPA 54, Section 5.3.

If the total BTU/hour used by the appliances is less than the maximum BTU/hr the space can support, the room meets the ***Unconfined Space*** criteria and no further ventilation is needed.

WARNING

This heater shall not be installed in a confined space or unusually tight construciton unless provisions are made for adequate combustion and ventilation air.

WARNING

If the area in which the heater may be operated is smaller than that defined as an unconfined space, or if the building is of unusually tight construction, provide adequate combustion and ventilation air by one of the methods described in the National Fuel Gas Code, ANSI Z223.1/ NFPA 54, 1992, Sections 5.3, or applicable codes.

WARNING: Before installing the gas log set in a solid-fuel burning fireplace, the chimney flue and firebox must be cleaned of soot, creosote, and loose paint by a qualified chimney cleaner.

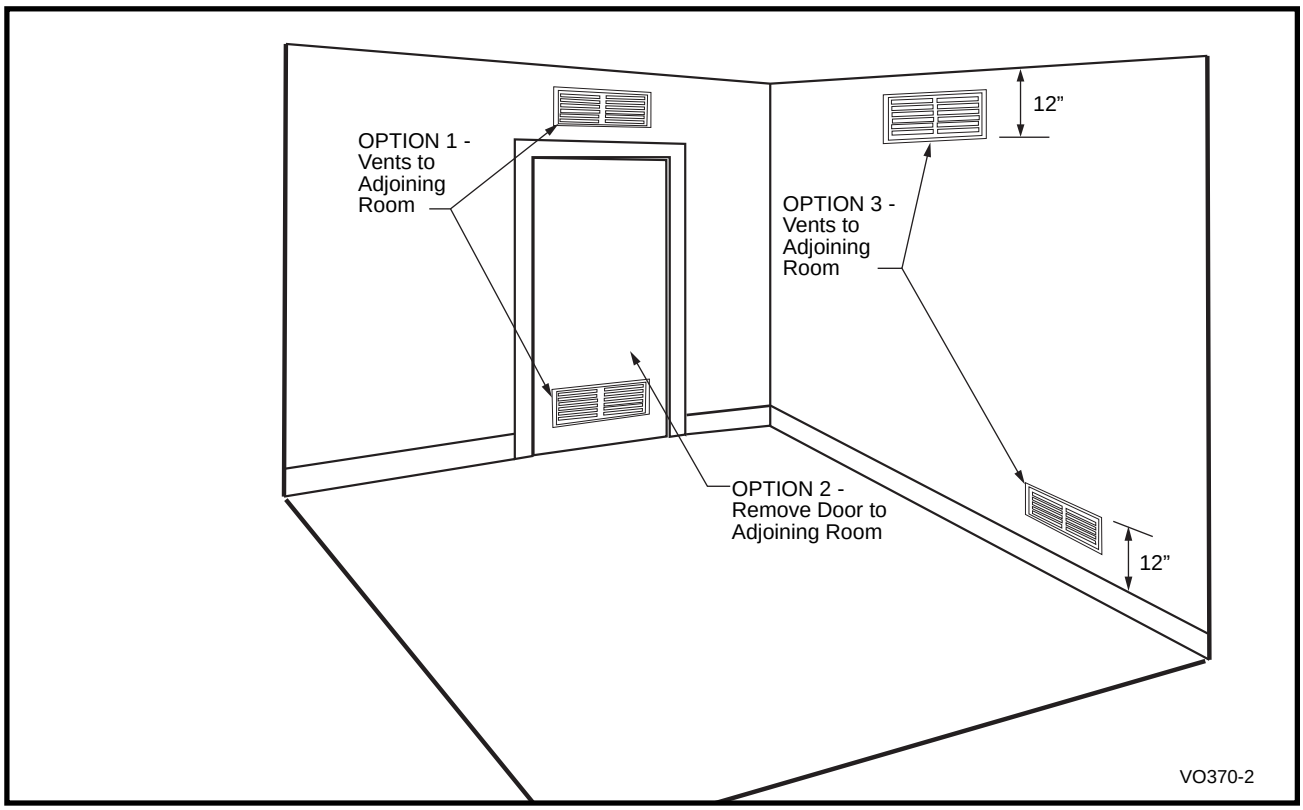


Fig. 2 Ventilation options for confined spaces.

Installation Instructions

WARNING

Do not allow fans to blow directly into the fireplace. Avoid any drafts that alter burner flame patterns.

WARNING: Do not use a blower insert, heat exchanger insert, or other accessory not approved for use with this gas logset.

DO NOT burn solid fuels in a fireplace where an unvented gas room heater or logset is installed.

Any outside air ducts and/or ashdumps in the fireplace must be permanently closed at time of appliance installation.

Do not install this appliance in bedrooms or bathrooms.

WARNING: Any change to this heater or its controls can be dangerous.

Preparing the Fireplace

Gas Line Preparation

Before connecting the appliance, turn off all gas appliances. Close the main gas valve at the gas meter or appliances. Close the main gas valve at the gas meter or LP tank. Make certain there is good ventilation where the installation will be made. Installation should comply with all applicable building codes and ANSI Z223.1/NFPA 54, latest edition, or CSA B-149.1. Use LP gas-resistant pipe compound to seal threaded joints.

Installation to Existing Gas Line

There should be a manual ON/OFF valve within easy reach of the appliance. If not, before installation of the appliance make certain a valve is installed. There may be a second valve on the line close to the point where the fireplace line branches off the main gas supply line. During installation, make certain this valve is OFF.

Manufactured Fireplace Preparation

Refer to the manufacturer's fireplace installation manual for the specific method of running the gas line into the fireplace. The following method is typical of most manufactured fireplaces.

Insert a 1/2" gas pipe through the gas line tube provided by the manufacturer, from outside the fireplace, as marked by the manufacturer. An ON/OFF valve should be placed within easy reach of the appliance. After the gas supply is installed, reinstall the insulation removed from the gas line tube, and pack it around the pipe, to prevent cold air entry and to protect the gas line. (Fig. 3)

NOTE: The gas pipe should not come into contact with any wood structure until it has reached a point at least one (1) inch away from the fireplace side. (Fig. 3)

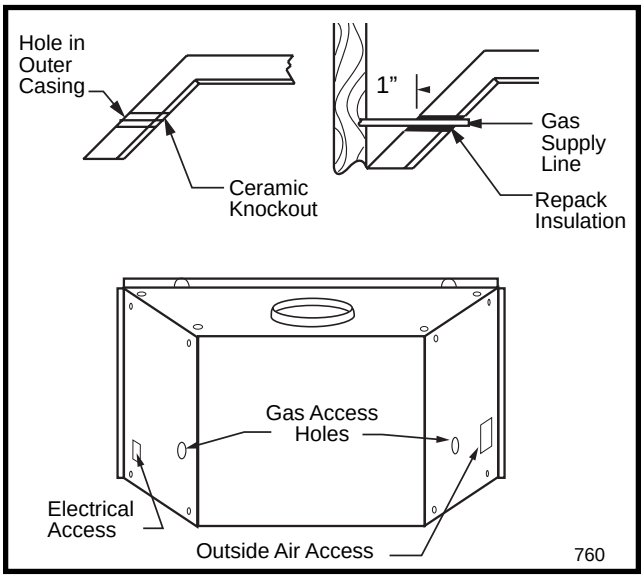


Fig. 3 Gas line installation - factory built fireplace.

Masonry Fireplace Installation Preparation

A 1/2 inch gas supply line must be supplied to the firebox. In most cases, this will require drilling a gas line access hole through the masonry wall. The gas supply line should then be sealed in the access hole with mortar. The gas supply line should also have a valve within easy reach of the appliance. Use only 1/2" rigid pipe or approved 3/8" copper tubing. (Do not use cast-iron pipe).

Clean the fireplace and chimney (if used) of any ashes, soot, creosote, or obstruction. This will minimize any smell from the fireplace. We recommend cleaning by a chimney sweep.

Flue Damper Preparation

The vented fireplace damper should be fully opened when operating the appliance as a vented log set. A damper stop clamp with set screw is provided as a means to prevent full closure of the fireplace damper blade. The clamp is designed to prevent accidental closure of the damper when in use. (Fig. 4) (If the damper stop cannot be installed, the installer should install a permanent damper stop that will keep the damper open a minimum of 1½").

Damper Stop Installation

When installing a decorative gas appliance in a fireplace, some local codes require a damper stop be added so the damper will not close completely. The CFM Corporation damper stop is designed so the damper can be locked in the closed position, and still allow a vent for the pilot gasses.

This damper stop is designed to work on all CFM Specialty Home Products BR, BC, SR, SC, TF and TL series fireplaces.

Installation Instructions

1. Open damper. The damper must be open to attach the damper stop.
2. Locate the damper locking bracket. From inside the fireplace locate the damper locking bracket on the left side of the combustion dome. (Fig. 4)
3. Align the two slots on either side of the cutout on the damper stop with the two small holes on the angled portion of the damper locking bracket. Attach the damper stop with the screws provided. (Fig. 5)

NOTE: Some of the early units may not have the holes in the end of the damper locking bracket. If this is the case use the damper stop as a template to drill two (2) 1/8" holes in the damper locking bracket to mount the damper stop.

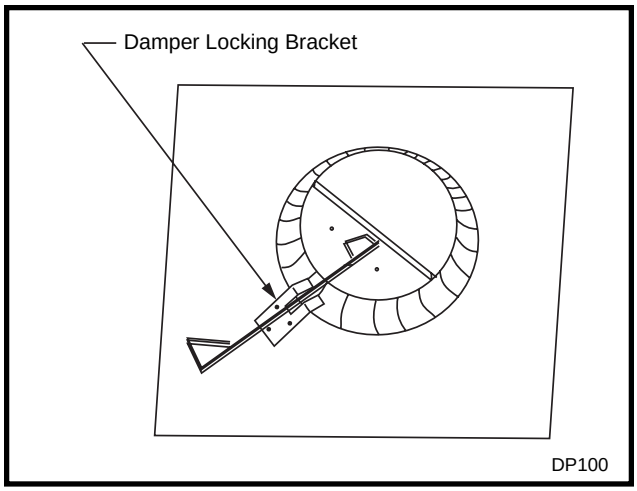


Fig. 4 Locate damper locking bracket.

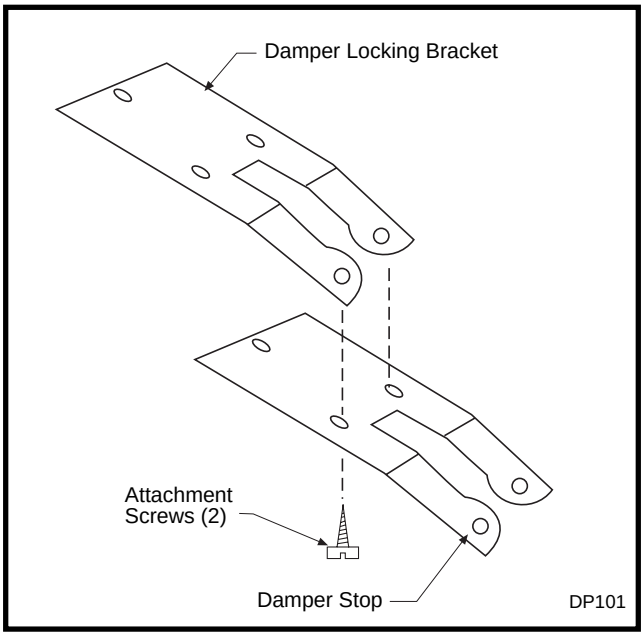


Fig. 5 Attach damper stop.

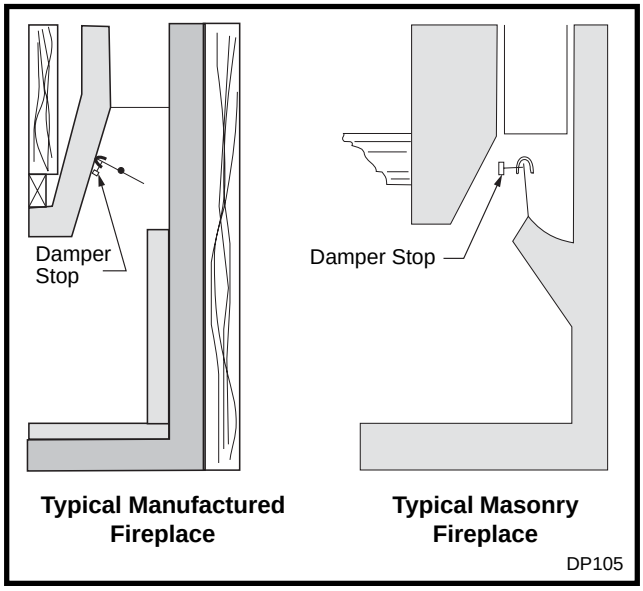


Fig. 6 Damper stop placement.

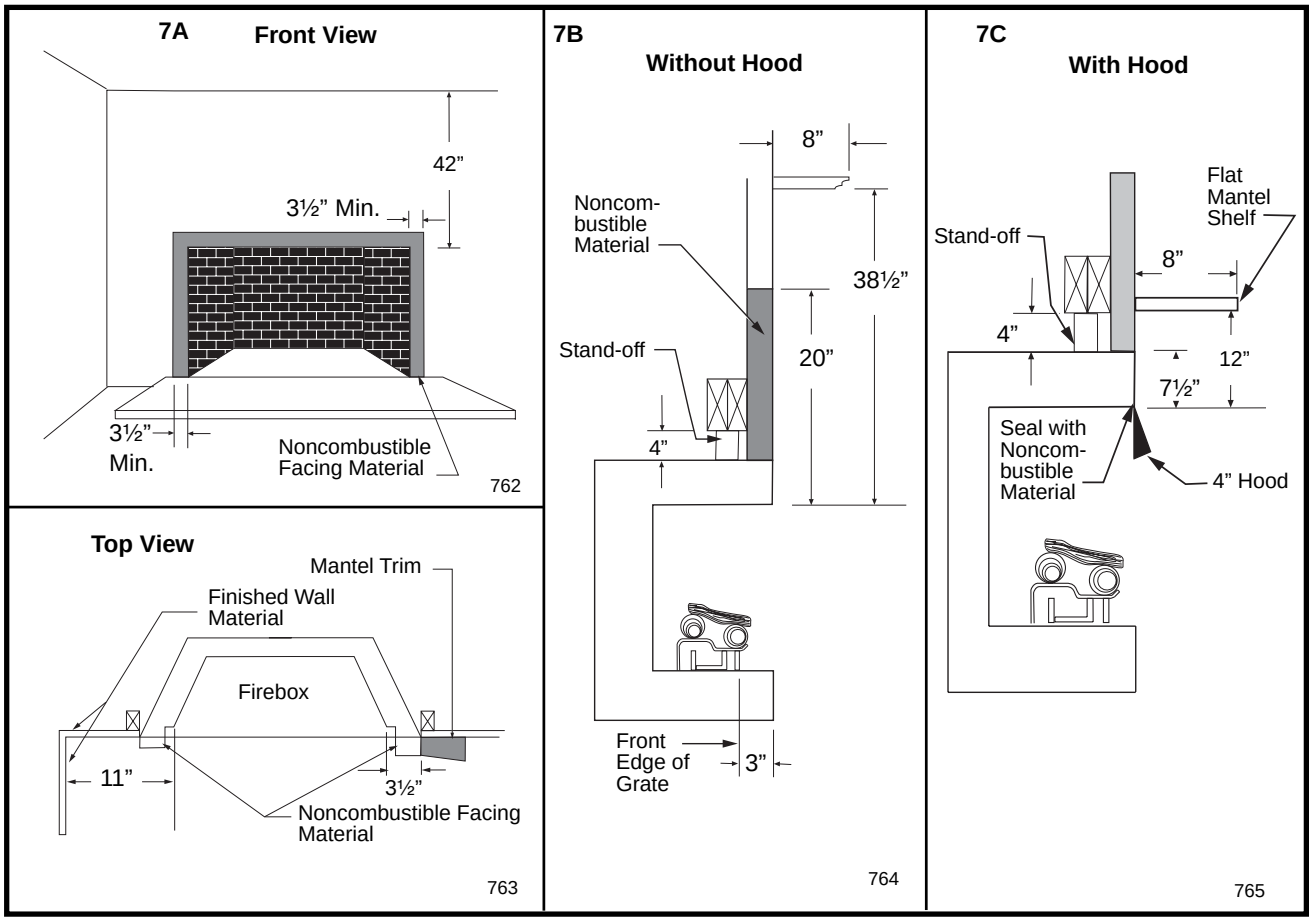


Fig. 7 Mantel clearances.

Burner Assembly Location

Centrally locate the unit in the fireplace, far enough back into the firebox to accomplish adequate draft (if use as a vented appliance is planned). Ensure that the front grate feet sit inside the front edge of the fireplace a minimum of 3". (Fig. 7B)

Clearances

(Refer to Fig. 7, Page 9)

To ensure the safe installation into a masonry or factory-built fireplace, carefully observe the following instructions:

1. Sidewall Clearances: The clearance from the inside of the front opening of the fireplace to any combustible wall should not be less than 3½" (Fig. 7A)

2. Ceiling Clearances: The ceiling height should not be less than 42" from the top of the fireplace opening. (Fig. 7A)

3. Mantel Clearances:

When installing an ANSI Z21.11.2 ventless appliance, the finishing material used for the mantel must be rated at 250°F or greater. Refer to firebox instructions for any further information.

Without hood: If no hood is installed, then there must be non-combustible material from the top front opening of the fireplace to a height of at least 20 inches and the full width of the fireplace. A combustible flat mantel shelf can be no closer than 38½" from the top front of the fireplace opening (Fig. 7B).

With hood: If a hood is installed there must be non-combustible material from the top front opening of the fireplace to a height of 7½" and the full width of the fireplace. A combustible flat mantel shelf may be installed according to the detail in Figure 7C.

3A. Mantel Depth:

A combustible mantel can be no deeper than 8", at 12" above the hood. (Figs. 7B and 7C)

4. Grate Clearance

The minimum clearance between the front legs of the grate and the front edge of the fireplace is 3" (Fig. 7B).

Gas Line Connection

Check the gas type. Use only the gas type indicated on the appliance rating plate. If the gas listed on the plate is not the type of gas supplied, DO NOT INSTALL the logset. Contact your dealer for the proper model.

Always use an external regulator for all LP appliances, to reduce the supply tank pressure to a maximum of 14" w.c. This is in addition to the regulator fitted to the heater.

The normal gas connection is made at the right side (facing the unit). If a left-side connection is desired, the connecting pipe may be directed under or behind the rear of the appliance, to terminate at the right-hand side for connection to the inlet of the appliance.

Connect the appliance to the gas line using fittings and aluminum tubing provided.

Close the valve knob on the appliance, turn the main gas supply valve 'ON', and carefully check all gas connections for leaks, with a soapy water solution or a sniffer. DO NOT TEST FOR LEAKS WITH AN OPEN FLAME.

Upon completing your gas line connection, a small amount of air will be in the gas lines. When first lighting the pilot, it will take a few minutes for the lines to purge themselves of air. Once the purging is complete, the pilot and burner will light and operate as indicated in this manual. Subsequent lightings of the appliance will not require purging.

Check the inlet pressure to the appliance, to ensure that it is as shown in the table on page 3. The minimum is for the purpose of input adjustment.

The pressure is controlled by the regulator and should be checked at the pressure test point located in the control valve body. Access to the pressure test point is obtained by removing all logs. *(UVL-M series only)*

The pressure should be checked with the appliance burning and the control set on 'HIGH'.

The pressure regulator is preset and locked to avoid tampering. If the pressure is not as specified, replace the regulator. Refer to Replacement Parts.

After measuring the pressure, replace the test point plug. Ensure there are no leaks, then place the logs in their specified positions.

WARNING

Connection directly to an unregulated LP tank can cause an explosion.

During the initial purging and subsequent lightings, never allow the gas valve control knob to remain depressed in the 'Pilot' position without lighting the pilot with a match or piezo ignitor.

There is a possibility of odor fade in LP. Never install an LP appliance or service line below grade without a gas detector.

Positioning the Logs

The logs must be positioned on the grate and locating pins, as shown in Figure 8. Make sure each bottom log engages the locator pins on the grate, and top logs are properly positioned in notches on tops of bottom logs.

Gas logs must be properly positioned or the appliance will not function properly, and may result in soot accumulation on the inside of the firebox and/or on the gas logs. **Make sure there is no yellow flame impingement on the logs which could result in excessive carbon monoxide emissions and carboning.**

The optional volcanic rock may be applied to the hearth around the burner assembly.

Never place any other material on the burner.

WARNING

Failure to position the parts in accordance with these diagrams or failure to use only parts specifically approved for use with this appliance may result in property damage or personal injury.

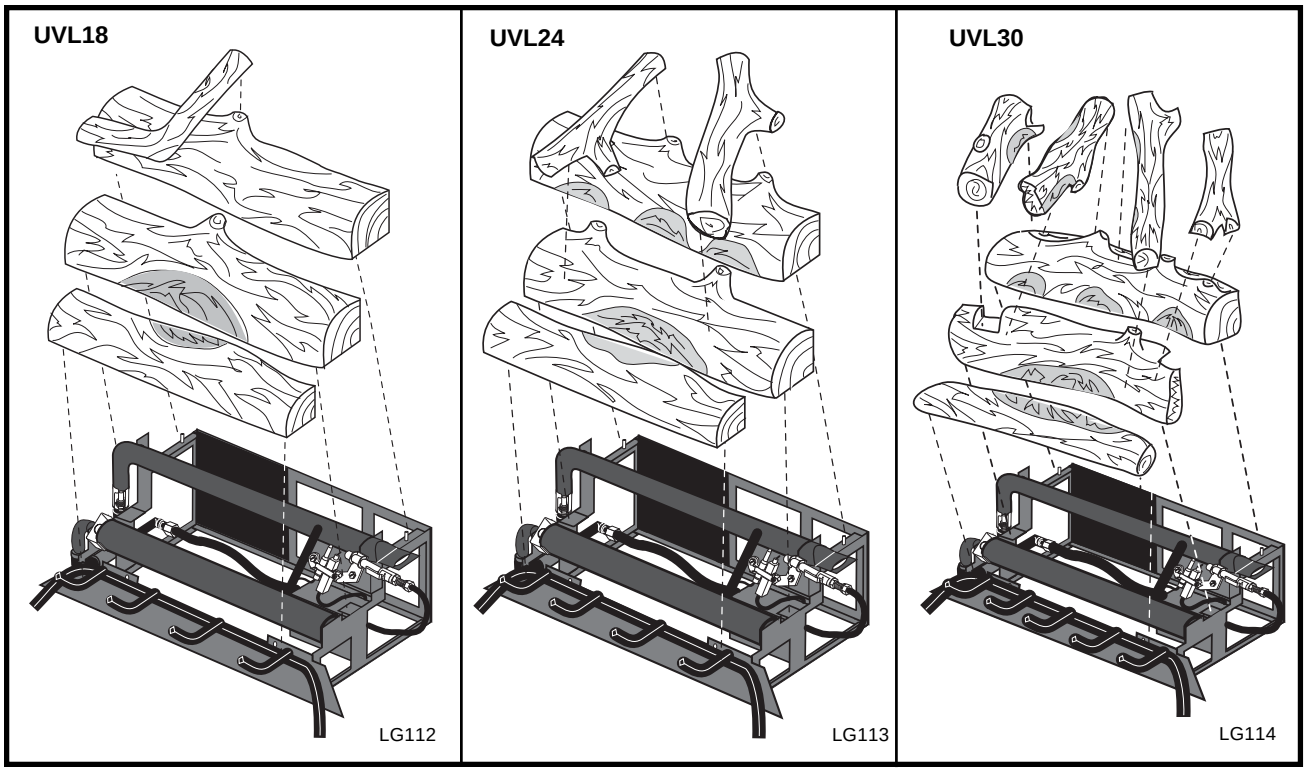


Fig. 8 Positioning logs on grate assembly.

Fireplace Screen

The fireplace screen must be in place when the appliance is operating, and unless other provisions for combustion air are made, the screen must have openings for the introduction of combustion air.

5. Remote wall switch

(RN and RP models only)

1. Thread wire through the electrical knockout located on either side of the fireplace. Do not cut the wire or insulation on metal edges. Ensure that the wire is protected. Run the other end to a conveniently-located wall receptacle box.

2. Attach the wire to the switch and install the switch into the receptacle box. Attach the cover plate to the switch.

3. Connect the wiring to the gas valve. One wire connects to the ‘TP/TH’ terminal; the other attaches to the ‘TH’ terminal. (Fig. 10)

NOTE: If any of the original wire as supplied with the appliance must be replaced, it must be replaced with a wire of at least a 60°C temperature rating.

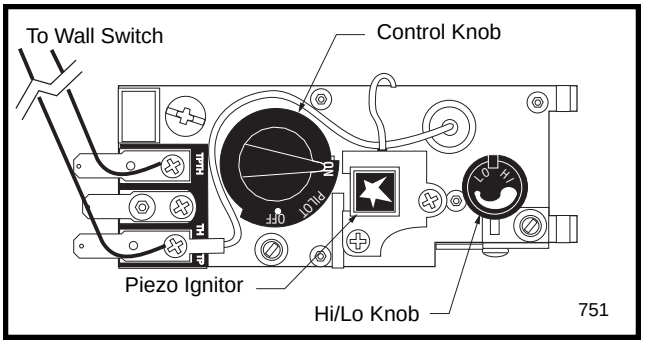


Fig. 9 Connecting a wall switch to the valve terminals. (UVL-R Series only)

Operating Instructions

The First Firing

On completing the gas line connection, a small amount of air will be trapped in the gas line. When you first light the unit with the pilot light, it will take a few minutes to purge the trapped air. Once you have purged the gas line, the pilot and burner will light and operate normally. Subsequent lightings of the appliance will not require purging the gas line.

When lit for the first time, the appliance will emit a slight odor for an hour or two. This is due to paint and lubricants used in the manufacturing process curing under heat. This is normal. You may wish to have the windows open to dissipate any odors during the curing process.

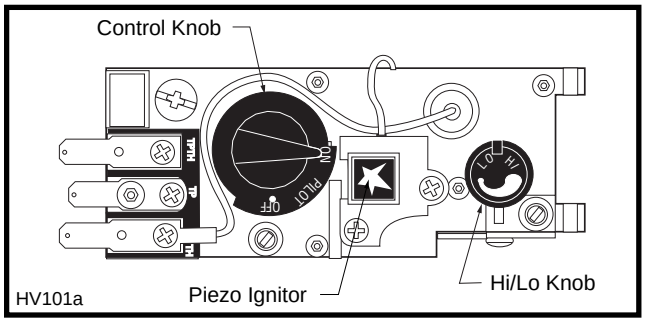


Fig. 10 Honeywell control valve.

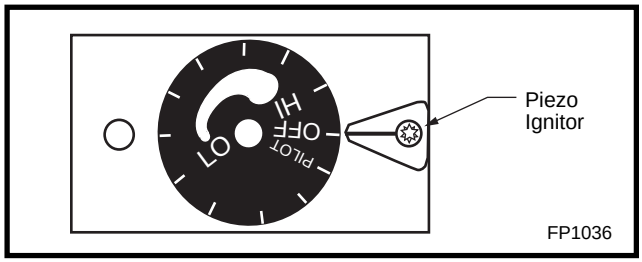


Fig. 11 EuroSIT control valve.

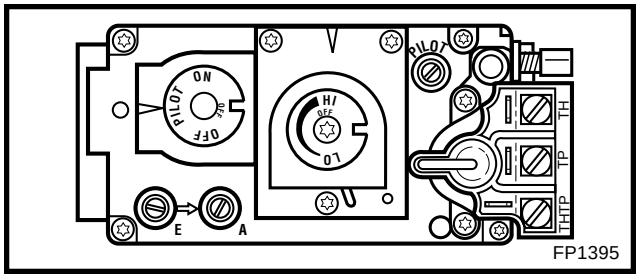


Fig. 12 SIT control valve.

Flame Appearance

To obtain proper operation, it is imperative that the pilot and main burner flame characteristics are steady, not lifting or floating. Refer to Figure 13 -15 for proper burner flame appearance. Refer to Figure 16 for proper pilot flame appearance.

Typically, the top 1/8" of the thermopile should be engulfed in the pilot flame. (Fig. 16)

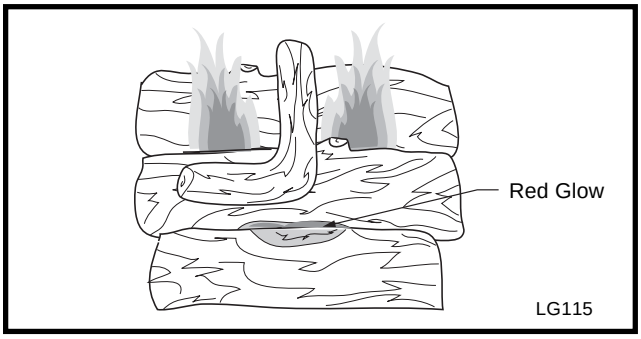


Fig. 13 UVL18 proper burner flame appearance.

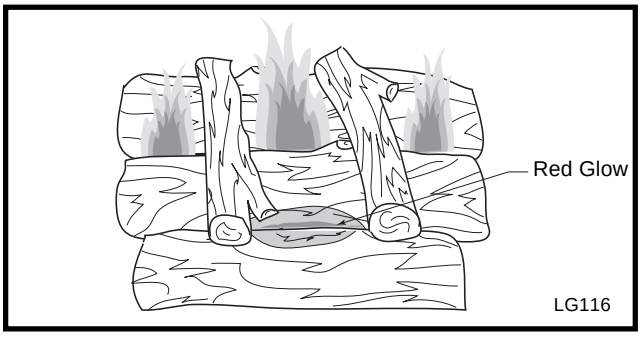


Fig. 14 UVL24 proper burner flame appearance.

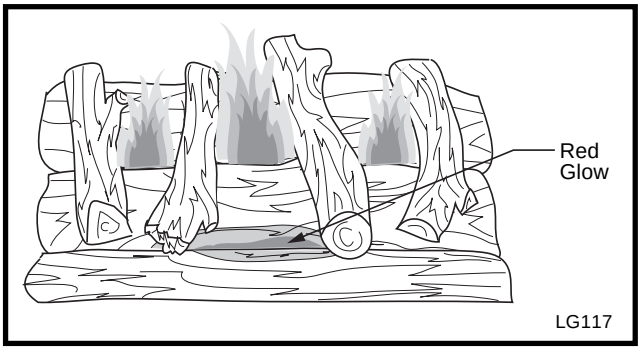


Fig. 15 UVL30 proper burner flame appearance.

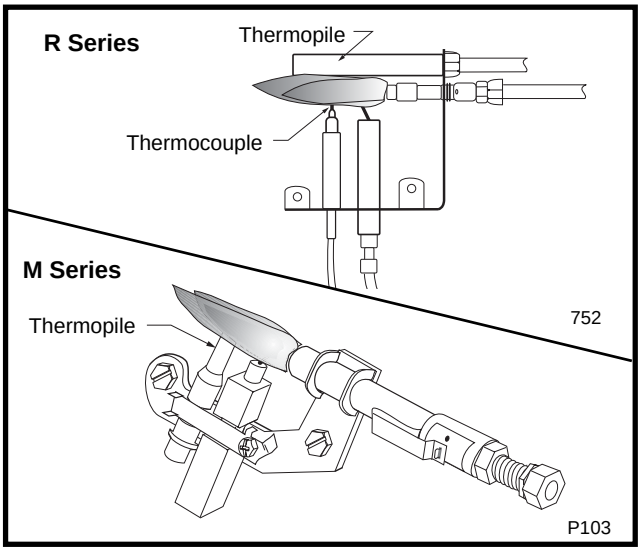


Fig. 16 Proper pilot flame.

Lighting And Operating Instructions

FOR YOUR SAFETY READ BEFORE LIGHTING

WARNING:If you do not follow these instructions exactly, a fire or explosion may result causing property damage, personal injury or loss of life.

A. This heater has a pilot which must be lit manually. When lighting the pilot follow these instructions exactly.

B. BEFORE LIGHTING smell all around the heater area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.

WHAT TO DO IF YOU SMELL GAS

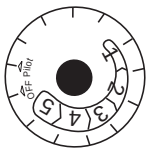
- Do not try to light any fireplace
- Do not touch any electric switch
- Do not use any phone in your building
- Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach your gas supplier, call the Fire Department

C. Use only your hand to push in or turn the gas control knob. Never use tools. If the knob will not push in or turn by hand, do not try to repair it, call a qualified service technician. Applying force or any attempted repair may result in a fire or explosion.

D. Do not use this fireplace if any part has been under water. Immediately call a qualified service technician to inspect the heater and to replace any part of the control system and any gas control which has been under water.

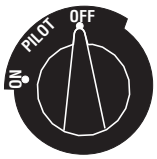
Lighting Instructions

1. **STOP!** Read the safety information above.
2. Turn off all electrical power to the fireplace.
3. For MN/MP/TN/TP appliances ONLY, go on to Step 4. For RN/RP appliances turn the On/Off switch to “OFF” position or set thermostat to lowest level.
4. Open control access panel.
5. Push in gas control knob slightly and turn clockwise to "OFF".



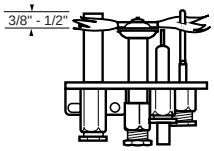
Euro SIT

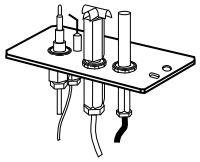
SIT NOVA

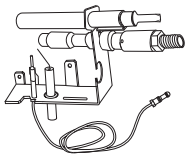


Honeywell

6. Wait five (5) minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, STOP! Follow "B" in the safety information above. If you do not smell gas, go to the next step.
7. Remove glass door before lighting pilot. (See Glass Frame Removal section).
8. Visibly locate pilot by the main burner.
9. Turn knob on gas control counterclockwise to "PILOT".
10. Push the control knob all the way in and hold. Immediately light the pilot by repeatedly depressing the piezo spark ignitor until a flame appears. Continue to hold the control knob in for about one (1) minute after the pilot is lit. Release knob and it will pop back up. Pilot should remain lit. If it goes out, repeat steps 5 through 8.







- If knob does not pop up when released, stop and immediately call your service technician or gas supplier.
- If after several tries, the pilot will not stay lit, turn the gas control knob to "OFF" and call your service technician or gas supplier.

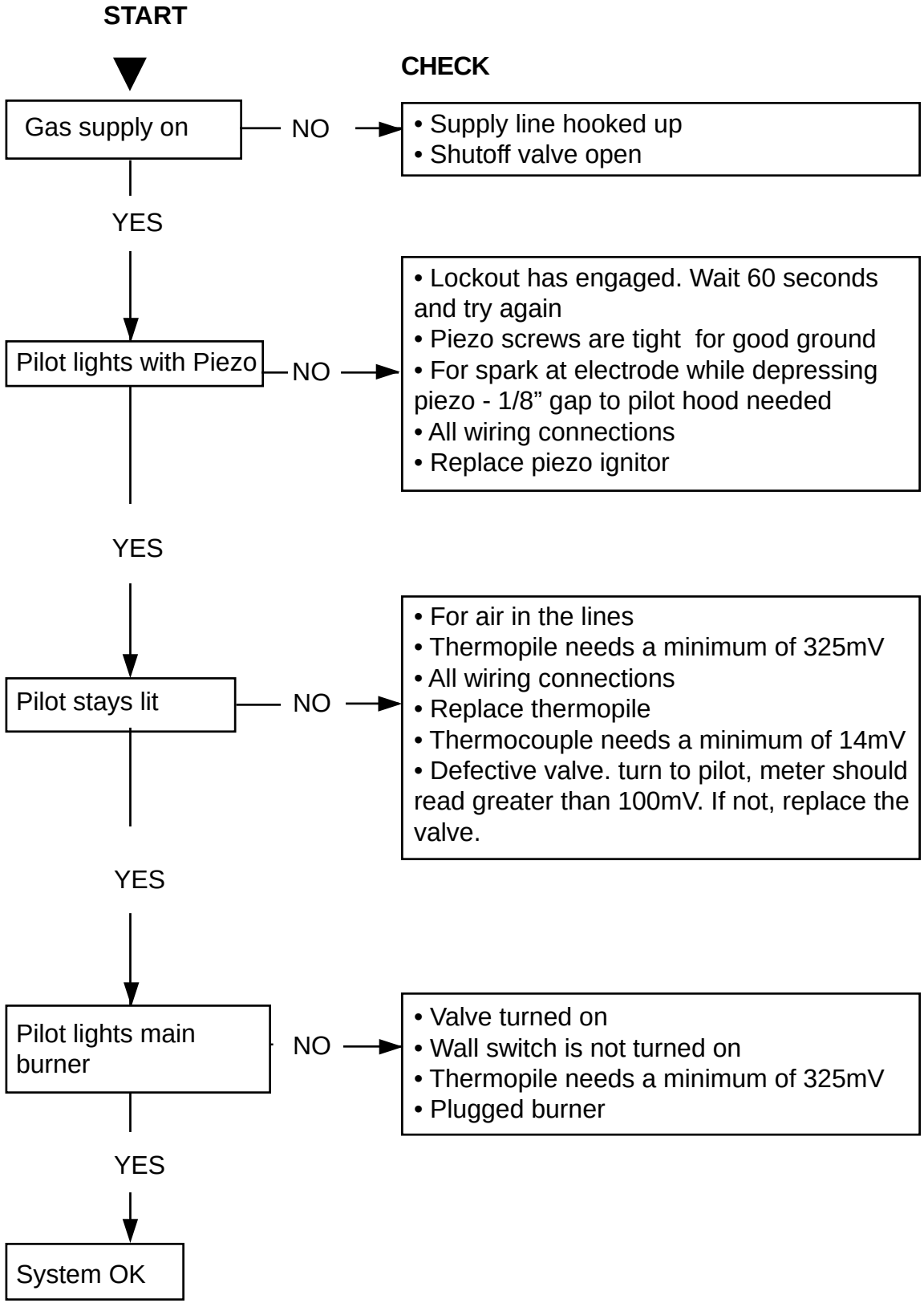
11. Replace glass door.
12. Turn gas control knob to “ON” position.
13. For RN/RP appliances turn the On/Off switch to “ON” position or set thermostat to desired setting.
14. Turn on all electrical power to the fireplace.

To Turn Off Gas To Heater

1. Turn the On/Off switch to Off position or set the thermostat to lowest setting.
2. Turn off all electric power to the fireplace if service is to be performed.
3. Open control access panel.
4. Push in gas control knob slightly and turn clockwise to "OFF". Do not force.
5. Close control access panel.

Troubleshooting

Honeywell Valve (UVL-R series)


START
CHECK
Gas supply on
NO
• Supply line hooked up
• Shutoff valve open
YES
Pilot lights with Piezo
NO
• Lockout has engaged. Wait 60 seconds and try again
• Piezo screws are tight for good ground
• For spark at electrode while depressing piezo - 1/8” gap to pilot hood needed
• All wiring connections
• Replace piezo ignitor
YES
Pilot stays lit
NO
• For air in the lines
• Thermopile needs a minimum of 325mV
• All wiring connections
• Replace thermopile
• Thermocouple needs a minimum of 14mV
• Defective valve. turn to pilot, meter should read greater than 100mV. If not, replace the valve.
YES
Pilot lights main burner
NO
• Valve turned on
• Wall switch is not turned on
• Thermopile needs a minimum of 325mV
• Plugged burner
YES
System OK

Troubleshooting

SIT 630 Eurosit Valve ('M' Series)

With proper installation and maintenance, your new Gas Appliance should provide years of trouble-free service. If you do experience a problem, this guide will help a *CERTIFIED SERVICE PERSON* in the diagnosis of problems and the corrective action to take.

SYMPTOM	POSSIBLE CAUSES	CORRECTIVE ACTION
1. Pilot will not light with piezo ignitor or match.	A. Main shutoff valve closed.	1. Make sure that the shutoff valve located on the pipe supplying gas to the fireplace is open.
	B. Air in the gas line.	1. Light a match, turn gas valve knob to 'PILOT' position and depress. Keep match near pilot burner till it lights.
	C. Pilot orifice plugged, not letting gas flow.	1. Replace the burner assembly.
	D. No gas supply to the fireplace.	1. Check plumbing to see if gas fireplace has been hooked up to the gas supply line. 2. Propane tank is empty.
2. Pilot will not stay lit after carefully following the lighting instructions.	A. Defective thermocouple.	1. Replace burner assembly.
	B. Thermocouple fitting not tight in valve.	1. Carefully tighten the fitting.
	C. Weak pilot flame.	1. The pilot flame must engulf the thermocouple. Clean for maximum flame impingement on the thermocouple. (Fig. 12)
	D. Defective valve.	1. Replace the burner assembly.
	E. Not enough oxygen in the room. ***(Danger!)***	1. Open the door and get fresh air ***at once!***
3. No gas to main burner with pilot flame burning and valve turned to 'High-Low' range.	A. Plugged main burner orifice.	1. Replace the burner assembly.
	B. Defective valve.	1. Replace the burner assembly.

Maintenance and Safeguards

Keep the control compartment, logs and burner area around the logs clean by vacuuming or brushing at least twice a year. At altitudes above 4,500 feet (1370m) monthly cleaning is recommended.

THE LOGS CAN GET VERY HOT. HANDLE ONLY WHEN COOL.

Always turn off gas to the pilot before cleaning. For relighting, refer to the lighting instructions.

The appliance and venting system (if used) should be inspected before initial use, and at least annually by a qualified field service person.

Always keep the appliance area clear and free from combustible materials, gasoline, and other flammable vapors and liquids.

Never obstruct the flow of combustion and ventilation air. Keep the front of the appliance clear of all obstacles and materials.

Leave clearance of at least 36” from the front of the fireplace.

Although your gas logs are very realistic in appearance, the fireplace must not be used for burning any solid fuels.

To avoid irreparable damage to the appliance or personal injury, matches, paper, garbage, or any other material must not be placed or thrown on top of the logs or into the flames.

To avoid personal injury, do not touch hot surfaces when the appliance is operating. Touch only the valve control knob. Avoid contact with the grate feet or prongs, or any other part which may be very hot.

Always ensure that the fireplace screen is closed when the appliance is operating.

Any safety screen or guard removed for servicing the appliances must be replaced before operating the appliance.

Close supervision is necessary when the appliance is being operated near children.

The appliance is intended for use as a gas heater mounted in a vented or unvented fireplace as described in the installation section of these instructions. It should not be used for any other purpose.

Inspecting the Venting System

A vented fireplace venting system is designed and constructed to develop a positive flow adequate to remove flue gasses to the outside atmosphere. See vented fireplace installation instructions.

Any foreign objects in the venting system, except those designed specifically for the venting system, may cause spillage of the flue gases into the room. In extreme situations, carbon monoxide poisoning or suffocation may occur.

Periodic examination and cleaning of the venting system of the solid-fuel burning fireplace must be done frequently by the home owner or a qualified agency.

UVL System Maintenance

The UVL burner and control system consists of:

- Chassis
- Gas Orifice
- Grate assembly
- UVL18 - four (4) decorative logs
  UVL24 - five (5) decorative logs
  UVL30 - seven (7) decorative logs
- Gas valve assembly
- Pressure regulator (UVL18M and UVL24M only)

Most of these components require only occasional check-up and cleaning. Some may require adjustment. If repair is needed, it should be performed by a qualified technician.

In order to properly clean the burner and pilot assembly, turn off the gas to the unit and remove the logs, exposing the burner and pilot assembly. Clean all foreign materials from the top of the burner. Check to make sure that all burner parts are clean. Visually inspect the pilot. Brush or blow away any dust or lint accumulations.

NOTE: The burner and pilot assembly should be checked for any dust or lint at least every six months.

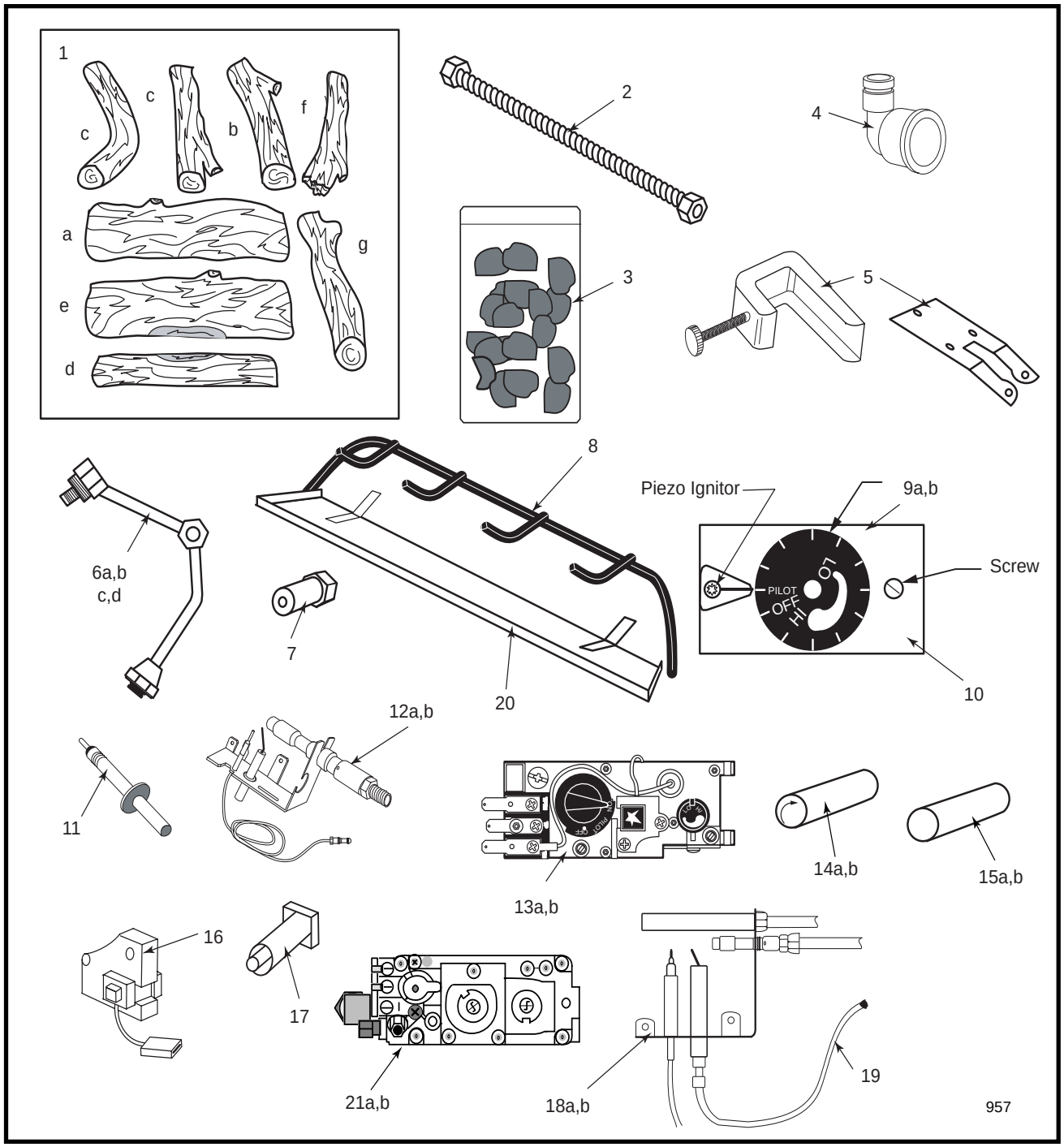
Replacement Parts

Contact the factory for questions about prices and policies covering replacement parts. Parts will be shipped at prevailing prices. Normally, all parts can be ordered through your CFM Specialty Home Products distributor or dealer.

When ordering replacement parts, always give the following information:

1. The model number of the appliance.
2. The part number
3. The description of the part. (See the Replacement Parts List on Page 17)
4. The installation date of the appliance.

If you need more information, beyond what the dealer can furnish, contact CFM Specialty Home Products, 410 Admiral Blvd, Mississauga, Ontario, Canada L5T 2N6, Attention: Director of Technical Service



CFM Specialty Home Products reserves the right to make changes in design, materials, specifications, prices and discontinue colors and products at any time, without notice.

UVL18/24/30 Premium Vent Free Gas Logs

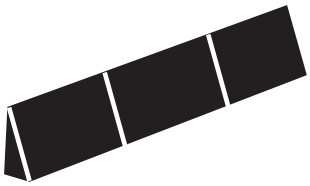
Ref.	Description	UVL18	UVL24	UVL30
1.	Complete Log Set	20001420	20001421	20001893
1a.	Back Log	7583180	7583175	20001892
1b.	Right Cross Log	--	7583177	20001886
1c.	Left Cross Log	7583181	7583176	20001889
1d.	Front Log	7583178	7583173	20001890
1e.	Middle Log	7583179	7583174	20001891
1f.	Middle Left Log	--	--	20001888

UVL18/24/30 Premium Vent Free Gas Logs (continued)

Ref.	Description	UVL18	UVL24	UVL30
1g.	Middle Right Log	--	--	20001887
2a.	3/8” Flare Tubing	7060120	7060120	7060120
2b.	3/8” Flare Tubing (M Series)	20004146	20004146	--
3.	Volcanic Rock	20000198	20000198	20000198
4.	Elbow Fitting 1/2” NPT (F) x 3/8” Flare	7523184	7523184	7523184
5.	Damper Stop or	7540310 3030176	7540310 3030176	7540310 3030176
6a.	Burner Supply Assembly - Main Orifice (RP)	20000120	20000124	20001878
6b.	Burner Supply Assembly - Main Orifice (RN)	20000119	20000123	20001877
6c.	Burner Supply Assembly - Main Orifice (MN)	20000121	20000125	20001875
6d.	Burner Supply Assembly - Main Orifice (MP)	20000122	20000126	20001876
7a.	Orifice Hood - Front (MP,RP)	20000134	20000133	30000339
7b.	Orifice Hood - Front (MN, RN)	20000130	20000132	30000337
8.	Front Leg Assembly	3081122	3081122	20001862
9a.	Gas Valve - SIT - MN Series	20001354	20001786	20001786
9b.	Gas Valve - SIT - MP Series	20001355	20001787	20001787
10.	Valve Cover - M Series (includes Piezo & Screw)	51851	51851	51851
11.	Piezo Ignitor - M Series & R Series - SIT Valve	52464	52464	52464
12a.	Pilot Assembly - MN Series	20001356	20001356	20001356
12b.	Pilot Assembly - MP Series	20001357	20001357	20001357
13a.	Gas Valve - Honeywell - RP	10000242	10000242	10000242
13b.	Gas Valve - Honeywell - RN	10000235	10000235	10000235
14a.	Knob Extension (Hi/Lo) - Honeywell Valve	20000006	20000006	20000006
14b.	Knob Extension (HI/LO) - SIT Valve	55162	55162	55162
15a.	Knob Extension (ON/OFF) - Honeywell Valve	20000007	20000007	20000007
15b.	Knob Extension (ON/OFF) - SIT Valve	55163	55163	55163
16.	Piezo Ignitor - R Series - Honeywell Valve	20000062	20000062	20000062
17.	Piezo Extension (R Series only)	20001427	20001427	20001427
18a.	Pilot Assembly - RP	55465	55465	55465
18b.	Pilot Assembly - RN	55464	55464	55464
19.	Ignitor Cable (M and R Series)	20004419	20004419	20004419
20.	Access Panel Assembly	3085109	3081120	20001860
21a.	Gas Valve - SIT - RN	55463	55463	55463
21b.	Gas Valve - SIT - RP	55462	55462	55462

Accessories

The following accessories are available from your Vermont Castings Dealer. If you need additional information beyond what your dealer can supply, contact CFM Specialty Home Products, 410 Admiral Blvd, Mississauga, Ontario, Canada L5T 2N6, Attention: Technical Service.

Accessory	Description	Model Number
 AC100	Required to protect wall above fireplace and/or mantel in certain applications.	AH3244BK (BLACK) AH3244PB (POLISHED BRASS)

Contact CFM Specialty Home Products with questions concerning prices and policies covering replacement parts. Parts may be ordered through your Vermont Castings distributor or dealer.

You will need the following information when ordering replacement parts:

- The appliance model number.
- The serial number.
- A description of the part.

Should you need additional information beyond what your dealer can furnish, contact:

CFM Specialty Home Products
410 Admiral Blvd.
Mississauga, Ontario
Canada L5T 2N6

Model and serial numbers are listed on the rating plate (located on right side of combustion chamber).

Record your model and serial number here for future reference.

Model #_____

Serial # _____

LIMITED 2/20 YEAR WARRANTY

For VERMONT CASTINGS® Vent-Free Gas Appliances

CFM Specialty Home Products (Company) extends the warranties specified in paragraphs A and B below with respect to its VERMONT CASTINGS Decorative Gas Appliances (the "Gas Appliance"), including the CFM Specialty Home Products supplied accessories and components referred to in those paragraphs, subject to the following conditions and limitations:

(1) These warranties are extended only to the Gas Appliance installed in the continental United States, including Alaska, and Canada; only if and so long as the accordance with the installation and operating instructions furnished therewith; and only if and so long as Gas Appliance is not removed from its original installation.

(2). These warranties are limited to only the component parts manufactured and supplied by CFM Specialty Home Products. The use of components manufactured by others with the Gas Appliance could create serious safety hazard, may result in the denial of certification by recognized national safety agencies, and could be in violation of local building codes.

(3). The Gas Appliance must be operated at all times in accordance with the operating instruction furnished therewith. The Gas Appliance is designed to burn either natural or propane gas only. Burning conventional fireplace fuels such as wood, coal, or any other solid fuel will cause damage to the Gas Appliance, will produce excessive temperatures and will result in a fire hazard.

(4). These warranties are limited to repair, replacement or furnishing a replacement for sale, as specified in Paragraphs A and B, for a part found to CFM Specialty Home Products satisfaction, after examination, to be defective in materials or workmanship under normal conditions, use and service.

(5). All obligations with respect to these warranties may be fully discharged by CFM Specialty Home Products refunding the wholesale price of a defective part.

(6) Except as otherwise expressly specified in Paragr aphs A and B. NONE OF THESE WARRANTIES COVER, AND CFM SPECIALTY HOME PRODUCTS SHALL NOT BE RESPONSIBLE FOR, ANY CONSTRUCTION, INSTALLATION, LABOR, TRANSPORTATION OR OTHER COSTS OR EXPENSES ARISING FROM A DEFECTIVE PART, ITS REPAIR OR REPLACEMENT OR OTHERWISE, NOR SHALL CFM SPECIALTY HOME PRODUCTS IN ANY EVENT BE RESPONSIBLE FOR ANY INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. EXCEPT TO THE EXTENT PROVIDED BY LAW, THERE ARE NO IMPLIED WARRANTIES WITH RESPECT TO THE GAS APPLIANCE, ITS COMPONENTS AND ACCESSORIES (INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), ALL OF WHICH ARE HEREBY EXPRESSLY INCLUDED. IN NO EVENT SHALL ANY IMPLIED WARRANTY PRESCRIBED BY LAW (NOTWITHSTANDING THE FOREGOING EXPRESS EXCLUSION) REMAIN IN EFFECT AFTER EXPIRATIONS OF THE WARRANTIES SET FORTH IN PARAGRAPHS A AND B.

A. Gas Appliances, electrical and manual compon ents, glass panels, all sealants or adhesives and optional accessories (exclusive of CFM Specialty Home Products supplied decorative logs which are covered by a separate warranty under paragraph B below):

Within two years from the date of manufacture of the gas appliance, CFM Specialty Home Products will repair, or replace (at our option) a defective part without charge.

B. CFM Specialty Home Products **cement logs, fiber logs, or firebox liners:**

Within two years from the date of manufacture of the gas appliance, CFM Specialty Home Products will replace a defective part without charge. Within years three through twenty from the date of manufacture of the gas appliance, CFM Specialty Home Products will provide a replacement for a defective part to the homeowner, but assumes no liability for incurred labor cost.

The foregoing warranties gives you specific legal rights and you may also have other rights which vary from state to state. Some states do not allow limitations on how long an implied warranty may last, so the limitation specified above on the duration of any implied warranty prescribed by law may not apply to you. Similarly, some states do not permit the exclusion or limitation of incidental or consequential damages, so the above exclusion of such damages may not apply to you.

In order to obtain performance of any of the above warranty obligations, write to CFM Specialty Home Products at this address:

CFM Specialty Home Products
410 Admiral Blvd.
Mississauga, Ontario Canada L5T 2N6
Attention: Director of Warranty Services

Since local building requirements may vary greatly throughout the country, users of CFM Specialty Home Products products should determine in advance whether there are any building
code restrictions on the use of a specified product.
CFM SPECIALTY HOME PRODUCTS MAKES NO REPRESENTATION OR WARRANTY REGARDING, AND SHALL NOT BE RESPONSIBLE FOR, ANY BUILDING CODE COMPLIANCE.

The foregoing warranties give you specific legal rights and you may also have other rights which vary from state to state.

CFM Specialty Home Products

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